

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P528580

Luminaire Tested: **GALN-SA3C-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14656 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

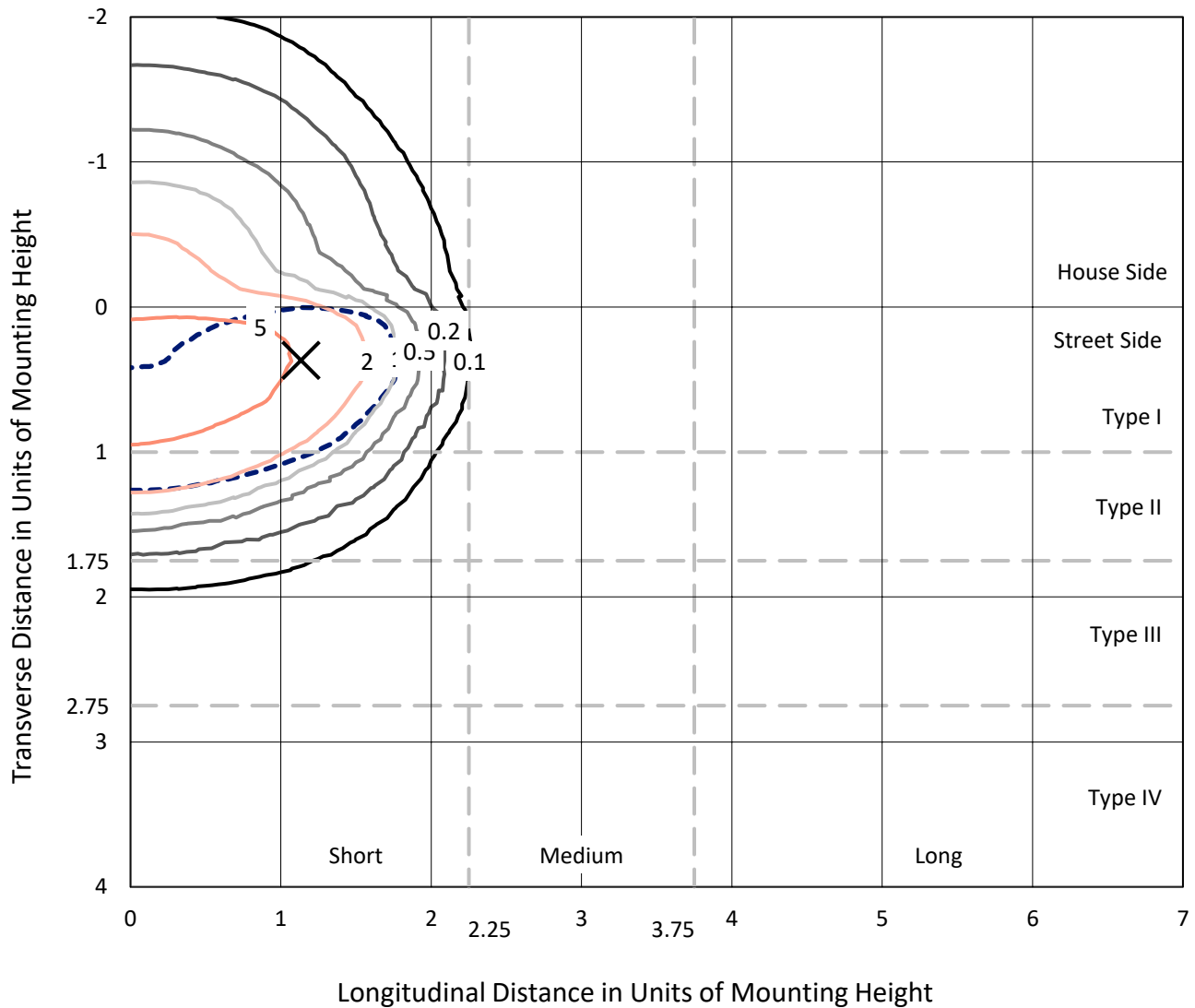


REPORT NUMBER: P528580

CATALOG NUMBER: GALN-SA3C-830-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

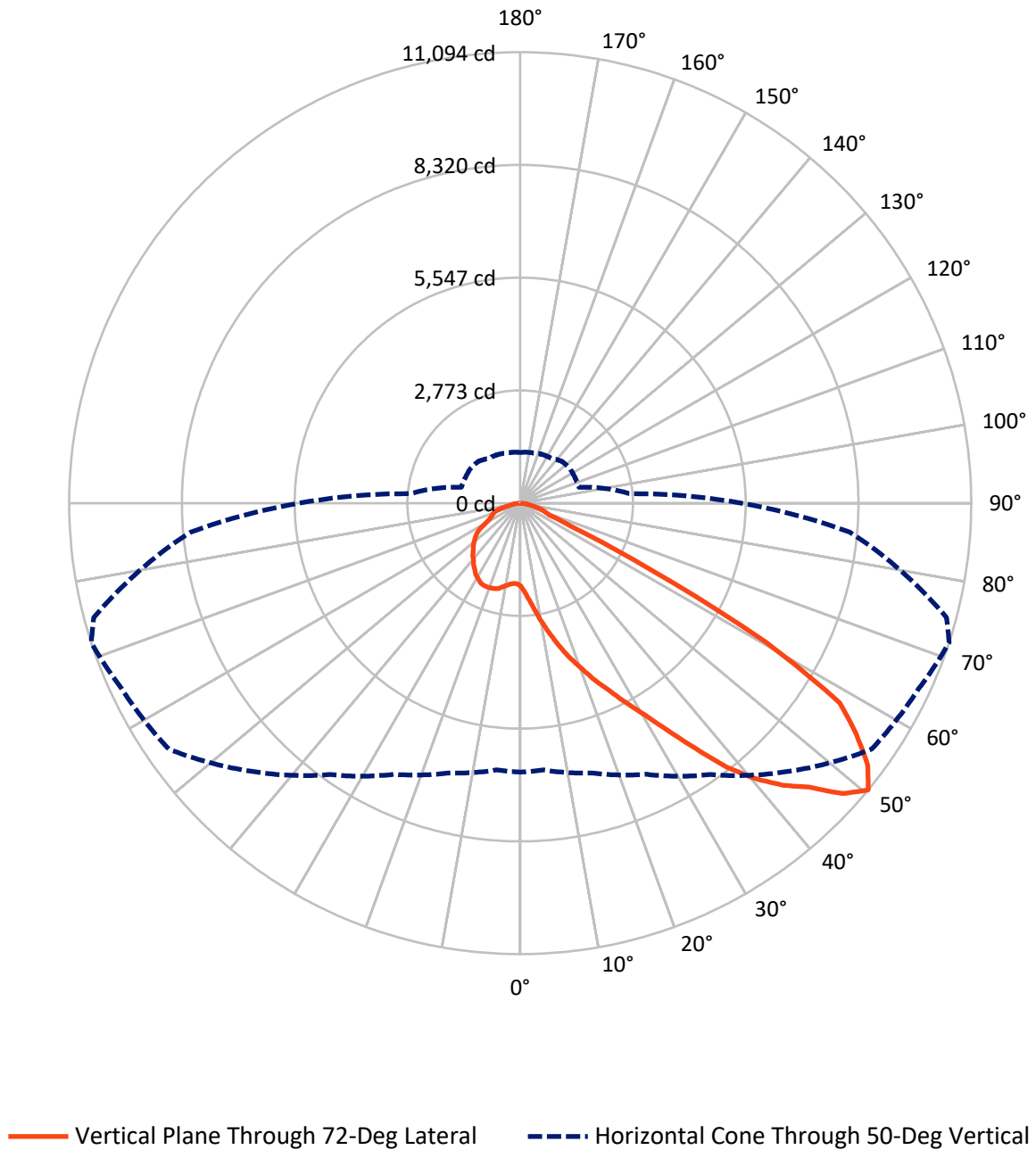
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P528580
CATALOG NUMBER: GALN-SA3C-830-U-T2R-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P528580

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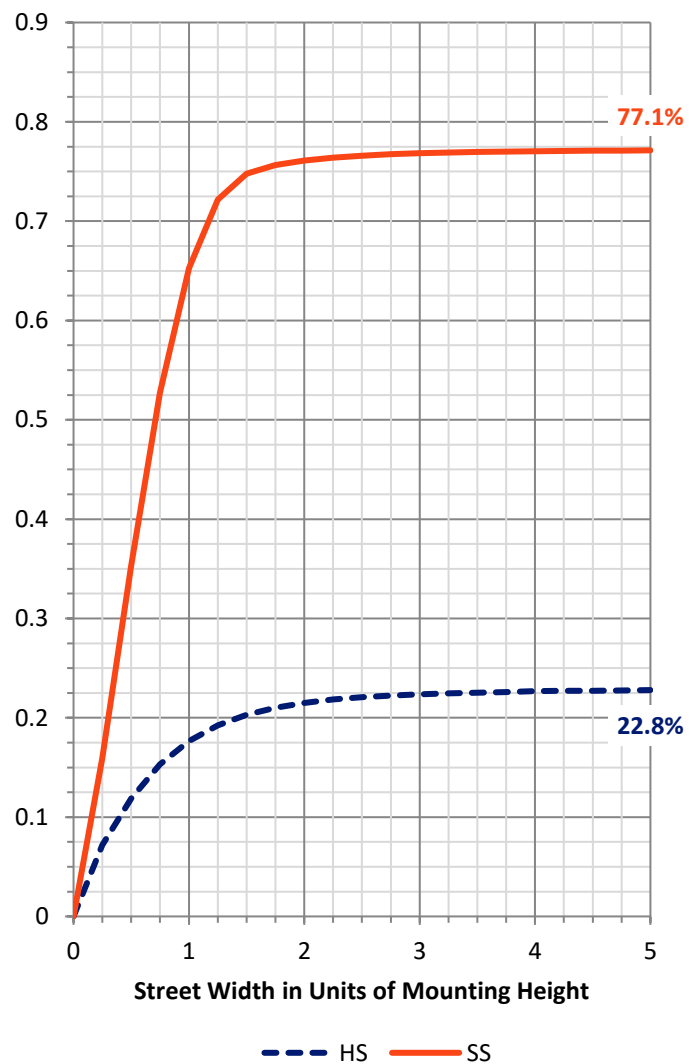
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3357.8	0.0	3357.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11298.2	0.0	11298.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	14656.0	0.0	14656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.0	1.6
10°-20°	897.1	6.1
20°-30°	1739.5	11.9
30°-40°	2881.7	19.7
40°-50°	4032.2	27.5
50°-60°	3401.7	23.2
60°-70°	1036.8	7.1
70°-80°	363.7	2.5
80°-90°	63.2	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14656.0	100.0
0°-180°	14656.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528580

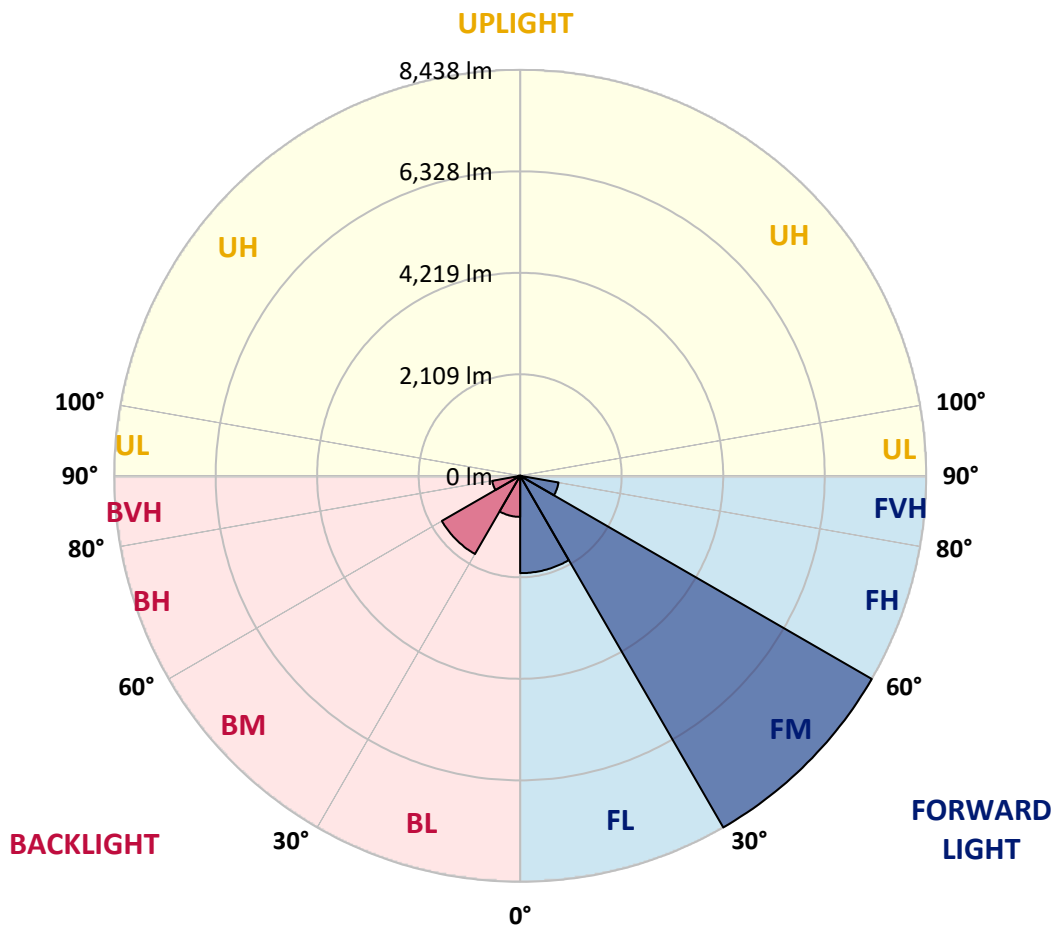
CATALOG NUMBER: GALN-SA3C-830-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2023.1	13.8			
FM	(30°-60°)	8437.9	57.6			
FH	(60°-80°)	809.0	5.5			G1/1800
FVH	(80°-90°)	28.3	0.2			G1/100
BL	(0°-30°)	853.6	5.8	B2/1000		
BM	(30°-60°)	1877.7	12.8	B2/2500		
BH	(60°-80°)	591.6	4.0	B2/1000		G2/1000
BVH	(80°-90°)	34.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P528580

CATALOG NUMBER: GALN-SA3C-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2
2.5°	2624.2	2607.9	2558.9	2542.6	2484.6	2379.4	2343.1	2236.1	2190.8	2149.1	2100.1
5°	3318.8	3242.6	3237.2	3144.7	3010.5	2932.5	2700.4	2544.4	2401.1	2328.6	2194.4
7.5°	3761.3	3763.1	3763.1	3686.9	3579.9	3382.3	3173.7	2892.6	2676.8	2569.8	2341.3
10°	4182.0	4145.8	4125.8	4118.6	4046.0	3853.8	3630.7	3282.5	2986.9	2861.8	2451.9
12.5°	4479.5	4448.6	4494.0	4470.4	4417.8	4292.7	4082.3	3685.1	3315.2	3146.5	2629.6
15°	4620.9	4642.7	4679.0	4744.2	4720.7	4673.5	4441.4	4098.6	3668.8	3478.4	2787.4
17.5°	4838.5	4778.7	4822.2	4903.8	4969.1	4947.4	4815.0	4397.9	4018.8	3784.9	2999.6
20°	4990.9	4956.4	4978.2	5072.5	5121.5	5244.8	5175.9	4789.6	4354.3	4107.7	3249.9
22.5°	5426.1	5375.4	5304.6	5319.1	5337.3	5424.3	5440.6	5219.4	4744.2	4483.1	3487.5
25°	5962.9	5915.8	5832.4	5747.1	5694.5	5678.2	5734.4	5556.7	5117.8	4847.6	3743.2
27.5°	6554.2	6474.4	6421.8	6245.9	6104.4	6082.6	6055.4	5959.3	5560.3	5268.4	4031.5
30°	7129.1	7065.6	6994.9	6713.8	6566.9	6543.3	6409.1	6436.3	6040.9	5716.3	4358.0
32.5°	7564.3	7569.7	7408.3	7196.2	7058.3	6933.2	6884.2	6962.2	6657.5	6396.4	4722.5
35°	7916.1	7932.5	7778.3	7586.1	7437.4	7524.4	7502.6	7538.9	7393.8	7074.6	5146.8
37.5°	8258.9	8177.3	8012.2	7919.8	7841.8	7985.0	8170.0	8200.9	8228.1	7852.7	5640.1
40°	8315.1	8322.4	8226.2	8291.5	8193.6	8409.4	8839.2	8799.3	8910.0	8581.7	6175.1
42.5°	8235.3	8251.6	8289.7	8382.2	8618.0	8877.3	9515.7	9352.5	9486.7	9194.7	6695.6
45°	8104.7	8037.6	8084.8	8436.6	8844.7	9421.4	10134.1	10007.2	9963.6	9718.8	7315.8
47.5°	7480.9	7549.8	7696.7	8130.1	8743.1	9515.7	10573.0	10544.0	10674.5	10502.2	7879.9
50°	6615.8	6588.6	6871.5	7359.4	8150.1	9330.7	10549.4	10812.4	11093.5	10854.1	8131.9
52.5°	4954.6	5099.7	5342.7	5948.4	7076.5	8322.4	10034.4	10473.2	10701.7	10651.0	7928.8
55°	3132.0	3175.5	3322.4	4042.4	5058.0	6679.3	8601.7	9619.1	10027.1	10217.5	7742.0
57.5°	1521.6	1440.0	1619.5	2198.0	2921.6	4492.2	6634.0	8378.6	9265.4	9610.0	7335.8
60°	794.3	825.2	895.9	1102.6	1510.7	2332.2	4134.9	5583.9	6938.6	7468.2	5560.3
62.5°	658.3	669.2	716.4	819.7	1004.7	1342.0	2111.0	2722.1	3538.2	4015.2	3162.8
65°	558.6	564.0	614.8	683.7	801.6	944.9	1086.3	1137.1	1376.5	1412.8	1124.4
67.5°	466.1	471.5	525.9	591.2	667.4	705.5	741.7	738.1	765.3	754.4	752.6
70°	359.1	364.5	420.7	489.7	527.7	506.0	618.4	643.8	654.7	663.8	678.3
72.5°	259.3	270.2	313.7	362.7	342.8	393.5	509.6	547.7	562.2	567.6	585.8
75°	188.6	192.2	203.1	188.6	217.6	273.8	359.1	406.2	424.4	429.8	457.0
77.5°	83.4	85.2	87.1	108.8	139.6	170.5	214.0	252.1	277.5	284.7	292.0
80°	43.5	45.3	56.2	74.4	99.7	125.1	156.0	177.7	194.0	195.9	203.1
82.5°	27.2	29.0	39.9	52.6	70.7	92.5	114.3	132.4	145.1	146.9	148.7
85°	12.7	16.3	23.6	32.6	47.2	59.8	61.7	52.6	56.2	58.0	54.4
87.5°	3.6	5.4	7.3	5.4	7.3	7.3	9.1	10.9	10.9	10.9	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P528580

CATALOG NUMBER: GALN-SA3C-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2	2040.2
2.5°	2072.9	2056.6	1993.1	1969.5	1907.9	1918.7	1886.1	1884.3	1877.0	1875.2	1873.4
5°	2123.7	2072.9	1996.7	1938.7	1904.2	1900.6	1877.0	1877.0	1884.3	1889.7	1877.0
7.5°	2207.1	2149.1	2020.3	1965.9	1935.1	1929.6	1913.3	1900.6	1916.9	1911.5	1897.0
10°	2303.2	2201.6	2065.6	2018.5	1967.7	1955.0	1955.0	1960.4	1933.2	1942.3	1927.8
12.5°	2410.2	2274.2	2123.7	2069.3	2009.4	2002.2	1998.5	1958.6	1973.1	1965.9	1929.6
15°	2546.2	2357.6	2198.0	2105.5	2054.7	2022.1	1975.0	1967.7	1958.6	1940.5	1924.2
17.5°	2693.1	2448.3	2232.5	2116.4	2040.2	2016.7	1980.4	1942.3	1915.1	1918.7	1906.0
20°	2818.3	2531.7	2245.2	2127.3	2029.4	1984.0	1927.8	1904.2	1875.2	1873.4	1871.6
22.5°	2967.0	2644.2	2263.3	2098.3	1996.7	1949.6	1911.5	1869.8	1849.8	1824.4	1837.1
25°	3144.7	2687.7	2266.9	2082.0	1973.1	1889.7	1869.8	1824.4	1817.2	1780.9	1788.2
27.5°	3273.5	2711.3	2237.9	2031.2	1918.7	1855.3	1819.0	1786.3	1773.6	1746.4	1739.2
30°	3445.7	2747.5	2176.3	1967.7	1864.3	1793.6	1771.8	1764.6	1728.3	1699.3	1695.7
32.5°	3641.6	2771.1	2136.4	1902.4	1808.1	1753.7	1764.6	1730.1	1684.8	1659.4	1652.1
35°	3797.6	2780.2	2036.6	1828.1	1770.0	1735.6	1722.9	1715.6	1650.3	1626.8	1608.6
37.5°	4035.1	2760.2	1953.2	1775.5	1728.3	1715.6	1704.7	1655.8	1581.4	1547.0	1521.6
40°	4312.6	2754.8	1846.2	1701.1	1688.4	1702.9	1670.3	1594.1	1490.7	1452.7	1434.5
42.5°	4579.2	2792.9	1779.1	1661.2	1644.9	1650.3	1605.0	1490.7	1440.0	1418.2	1389.2
45°	5025.3	2872.7	1668.5	1599.5	1592.3	1588.7	1534.3	1414.6	1385.5	1358.3	1352.9
47.5°	5427.9	2820.1	1597.7	1536.1	1543.3	1523.4	1407.3	1369.2	1336.6	1309.4	1300.3
50°	5451.5	2694.9	1498.0	1487.1	1488.9	1454.5	1343.8	1318.4	1276.7	1258.6	1245.9
52.5°	5328.2	2490.0	1405.5	1409.1	1414.6	1358.3	1265.9	1247.7	1213.3	1187.9	1180.6
55°	4981.8	2170.8	1314.8	1329.3	1343.8	1236.8	1207.8	1162.5	1135.3	1099.0	1100.8
57.5°	4388.8	1748.3	1187.9	1211.4	1242.3	1124.4	1102.6	1046.4	1006.5	977.5	973.9
60°	2941.6	1244.1	997.5	1006.5	1075.4	1028.3	1026.5	970.2	915.8	890.5	875.9
62.5°	1735.6	950.3	861.4	852.4	850.6	877.8	923.1	903.1	832.4	783.5	798.0
65°	908.6	821.5	801.6	770.8	752.6	745.4	779.8	788.9	741.7	689.1	685.5
67.5°	763.5	763.5	747.2	736.3	710.9	680.1	658.3	629.3	622.0	607.5	589.4
70°	694.6	712.7	707.3	681.9	660.1	625.7	569.5	522.3	477.0	460.6	471.5
72.5°	605.7	623.9	623.9	611.2	582.1	529.6	475.1	420.7	382.7	353.6	350.0
75°	466.1	475.1	496.9	482.4	444.3	411.7	355.5	299.2	263.0	235.8	230.3
77.5°	297.4	311.9	311.9	310.1	282.9	252.1	215.8	175.9	148.7	128.8	123.3
80°	197.7	206.7	214.0	206.7	188.6	165.0	137.8	110.6	90.7	74.4	70.7
82.5°	145.1	156.0	161.4	154.2	136.0	117.9	97.9	78.0	58.0	45.3	41.7
85°	56.2	58.0	65.3	78.0	76.2	74.4	59.8	43.5	32.6	23.6	21.8
87.5°	14.5	12.7	14.5	14.5	12.7	10.9	10.9	10.9	10.9	5.4	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)